

L2 ANSWER 1 OF 8 USPATFULL

ACCESSION NUMBER: 2002:92654 USPATFULL

TITLE: Method of inducing neuronal production in the brain and spinal cord

INVENTOR(S): **Goldman, Steven A.**, South Salem, NY, UNITED STATES  
Benraiss, Abdellatif, Astoria, NY, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002049178	A1	20020425
APPLICATION INFO.:	US 2001-846588	A1	20010501 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-201230P -	20000501 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Michael L. Goldman, Esq., NIXON PEABODY LLP, Clinton Square, P.O. Box 31051, Rochester, NY, 14603-1051	
NUMBER OF CLAIMS:	47	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	11 Drawing Page(s)	
LINE COUNT:	1997	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to methods of inducing neuronal production in the brain, recruiting neurons to the brain, and treating a neurodegenerative condition by providing a nucleic acid construct encoding a neurotrophic factor, and injecting the nucleic acid construct intraventricularly into a subject's brain.

L2 ANSWER 2 OF 8 USPATFULL

ACCESSION NUMBER: 2002:4727 USPATFULL

TITLE: PROCESS FOR TRANSFORMING GERMINEAE AND THE PRODUCTS THEREOF

INVENTOR(S): **GOLDMAN, STEPHEN L.**, TOLEDO, OH, UNITED STATES  
GRAVES, ANNE C. F., BOWLING GREEN, OH, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002002711	A1	20020103
APPLICATION INFO.:	US 1998-95208	A1	19980610 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-265982, filed on 27 Jun 1994, GRANTED, Pat. No. US 6020539		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	CALFEE HALTER & GRISWOLD, LLP, 800 SUPERIOR AVENUE, SUITE 1400, CLEVELAND, OH, 44114		
NUMBER OF CLAIMS:	13		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Page(s)		
LINE COUNT:	1550		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of producing transformed Gramineae comprising making a wound in a seedling in an area of the seedling containing rapidly dividing cells and in ovulating the wound with vir.sup.+ **Agrobacterium tumefaciens**. Also, this same method wherein the vir.sup.+ *A. tumefaciens* contains a vector comprising genetically-engineered T-DNA. There are further provided a transformed pollen grain of a Gramineae, a pollen grain of a Gramineae produced by a plant grown from a seedling infected with vir.sup.+ *A. tumefaciens*, a pollen grain of a Gramineae produced by a plant grown from a seedling infected with vir.sup.+ *A. tumefaciens*

containing a vector comprising genetically-engineered T-DNA, a pollen grain of a Gramineae whose cells contain a segment of T-DNA, and Gramineae derived from each of these pollen grains. There are also provided a transformed Gramineae plant, a transformed Gramineae plant derived from a seedling infected with vir.sup.+ **Agrobacterium tumefaciens**, a transformed Gramineae plant derived from a seedling infected with vir.sup.+ **A. tumefaciens** containing a vector comprising genetically-engineered T-DNA and a Gramineae plant whose cells contain a segment of T-DNA. Finally, there are provided transformed Gramineae derived from seedlings infected with vir.sup.+ **Agrobacterium tumefaciens** and transformed Gramineae derived from seedlings infected with vir.sup.+ **A. tumefaciens** containing a vector comprising genetically-engineered T-DNA.

L2 ANSWER 3 OF 8 USPATFULL

ACCESSION NUMBER: 2000:13002 USPATFULL

TITLE: Process for transforming Gramineae and the products thereof

INVENTOR(S): **Goldman, Stephen L.**, 4523 W. Bancroft, Unit #7, Toledo, OH, United States 43615  
Graves, Anne C. F., 627 Crestview Dr., Bowling Green, OH, United States 43402

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6020539		20000201
APPLICATION INFO.:	US 1994-265982		19940627 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-16600, filed on 11 Feb 1993, now abandoned which is a continuation of Ser. No. US 1989-436187, filed on 13 Nov 1989, now patented, Pat. No. US 5187073 which is a continuation of Ser. No. US 1987-67902, filed on 29 Jun 1987, now abandoned which is a continuation-in-part of Ser. No. US 1986-880271, filed on 30 Jun 1986, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fox, David T.		
LEGAL REPRESENTATIVE:	Marshall & Melhorn		
NUMBER OF CLAIMS:	29		
EXEMPLARY CLAIM:	3		
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	1606		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of producing transformed Gramineae comprising making a wound in a seedling in an area of the seedling containing rapidly dividing cells and inoculating the wound with vir.sup.+ **Agrobacterium tumefaciens**. Also, this same method wherein the vir.sup.+ **A. tumefaciens** contains a vector comprising genetically-engineered T-DNA. There are further provided a transformed pollen grain of a Gramineae, a pollen grain of a Gramineae produced by a plant grown from a seedling infected with vir.sup.+ **A. tumefaciens**, a pollen grain of a Gramineae produced by a plant grown from a seedling infected with vir.sup.+ **A. tumefaciens** containing a vector comprising genetically-engineered T-DNA, a pollen grain of a Gramineae whose cells contain a segment of T-DNA, and Gramineae derived from each of these pollen grains. There are also provided a transformed Gramineae plant, a transformed Gramineae plant derived from a seedling infected with vir.sup.+ **Agrobacterium tumefaciens**, a transformed Gramineae plant derived from a seedling infected with vir.sup.+ **A. tumefaciens** containing a vector comprising genetically-engineered T-DNA and a Gramineae plant whose cells contain a segment of T-DNA. Finally, there are provided transformed Gramineae derived from seedlings infected with vir.sup.+ **Agrobacterium tumefaciens** and transformed Gramineae derived from seedlings infected with vir.sup.+ **A. tumefaciens** containing a vector comprising

genetically-engineered T-DNA.

L2 ANSWER 4 OF 8 USPATFULL

ACCESSION NUMBER: 94:112907 USPATFULL  
TITLE: **Agrobacterium** mediated transformation of  
germinating plant seeds  
INVENTOR(S): Chee, Paula P., Kalamazoo, MI, United States  
**Goldman, Stephen L.**, Toledo, OH, United  
States  
Graves, Anne C. F., Bowling Green, OH, United States  
Slightom, Jerry L., Kalamazoo, MI, United States(4)  
PATENT ASSIGNEE(S): The University of Toledo, Toledo, OH, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5376543		19941227
APPLICATION INFO.:	US 1992-986582		19921207 (7)
DISCLAIMER DATE:	20091208		
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1990-499515, filed on 21 Jun 1990, now patented, Pat. No. US 5169770 which is a continuation of Ser. No. US 1987-135655, filed on 21 Dec 1987, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fox, David T.		
LEGAL REPRESENTATIVE:	Marshall & Melhorn		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	603		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	A non-tissue culture process using <b>Agrobacterium</b> -mediated vectors to produce transgenic plants from seeds of such plants as the common bean and soybean.		

L2 ANSWER 5 OF 8 USPATFULL

ACCESSION NUMBER: 94:73217 USPATFULL  
TITLE: Process for transforming gladiolus  
INVENTOR(S): Graves, Anne C. F., Bowling Green, OH, United States  
**Goldman, Stephen L.**, Toledo, OH, United  
States  
PATENT ASSIGNEE(S): The University of Toledo, Toledo, OH, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5340730		19940823
APPLICATION INFO.:	US 1992-900507		19920617 (7)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1991-652362, filed on 7 Feb 1991, now abandoned which is a continuation of Ser. No. US 1988-175709, filed on 31 Mar 1988, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Benzion, Gary		
LEGAL REPRESENTATIVE:	Marshall & Melhorn		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	918		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	A method of producing a transformed Gladiolus plant comprising: removing a piece of tissue from a corm; inoculating the tissue with vir.sup.+ <b>Agrobacterium tumefaciens</b> ; incubating the inoculated tissue		

until a tumor forms; culturing at least a portion of the tumor in hormone-free medium until a cormel forms; and growing the cormel to produce the transformed plant. Also, methods of producing a transformed Gladiolus corm or seed comprising growing a transformed Gladiolus plant, prepared as just described, until the corm or seed is formed. Finally, transformed Gladiolus plants, corms and seeds.

L2 ANSWER 6 OF 8 USPATFULL

ACCESSION NUMBER: 93:12433 USPATFULL  
TITLE: Process for transforming gramineae and the products thereof  
INVENTOR(S): Goldman, Stephen L., Toledo, OH, United States  
Graves, Anne C. F., Bowling Green, OH, United States  
PATENT ASSIGNEE(S): The University of Toledo, Toledo, OH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5187073		19930216
APPLICATION INFO.:	US 1989-436187		19891113 (7)
DISCLAIMER DATE:	20100105		
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1987-67902, filed on 29 Jun 1987, now abandoned which is a continuation-in-part of Ser. No. US 1986-880271, filed on 30 Jun 1986, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fox, David T.		
LEGAL REPRESENTATIVE:	Marshall & Melhorn		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	26 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	1585		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of producing transformed Gramineae comprising making a wound in a seedling in an area of the seedling containing rapidly dividing cells and inoculating the wound with vir.sup.+ **Agrobacterium tumefaciens**. Also, this same method wherein the vir.sup.+ **A. tumefaciens** contains a vector comprising genetically-engineered T-DNA. There are further provided a transformed pollen grain of a Gramineae, a pollen grain of a Gramineae produced by a plant grown from a seedling infected with vir.sup.+ **A. tumefaciens**, a pollen grain of a Gramineae produced by a plant grown from a seedling infected with vir.sup.+ **A. tumefaciens** containing a vector comprising genetically-engineered T-DNA, a pollen grain of a Gramineae whose cells contain a segment of T-DNA, and Gramineae derived from each of these pollen grains. There are also provided a transformed Gramineae plant, a transformed Gramineae plant derived from a seedling infected with vir.sup.+ **Agrobacterium tumefaciens**, a transformed Gramineae plant derived from a seedling infected with vir.sup.+ **A. tumefaciens** containing a vector comprising genetically-engineered T-DNA and a Gramineae plant whose cells contain a segment of T-DNA. Finally, there are provided transformed Gramineae derived from seedlings infected with vir.sup.+ **Agrobacterium tumefaciens** and transformed Gramineae derived from seedlings infected with vir.sup.+ **A. tumefaciens** containing a vector comprising genetically-engineered T-DNA.

L2 ANSWER 7 OF 8 USPATFULL

ACCESSION NUMBER: 93:1311 USPATFULL  
TITLE: Process for transforming corn and the products thereof  
INVENTOR(S): Goldman, Stephen L., Toledo, OH, United States  
Graves, Anne C. F., Bowling Green, OH, United States

PATENT ASSIGNEE(S): University of Toledo, Toledo, OH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5177010		19930105
APPLICATION INFO.:	US 1990-579354		19900905 (7)
RELATED APPLN. INFO.:	Division of Ser. No. US 1986-880271, filed on 30 Jun 1986, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fox, David T.		
LEGAL REPRESENTATIVE:	Willian Brinks Olds Hofer Gilson & Lione		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	21 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	1233		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of producing transformed corn comprising making a wound in a corn seedling in an area of the corn seedling containing rapidly dividing cells and inoculating the wound with vir.sup.+ **Agrobacterium** tumefaciens. Also, this same method wherein the vir.sup.+ A. tumefaciens contains a vector comprising genetically-engineered T-DNA. There are further provided a transformed corn pollen grain, a corn pollen grain produced by a plant grown from a seedling infected with vir.sup.+ A. tumefaciens, a corn pollen grain produced by a plant grown from a seedling infected with vir.sup..degree. A. tumefaciens containing a vector comprising genetrically-engineered T-DNA, a corn pollen grain whose cells contain a segment of T-DNA, and corn derived from each of these pollen grains. There are also provided a transformed corn plant, a transformed corn plant derived from a corn seedling infected with vir.sup.+ **Agrobacterium** tumefaciens, a transformed corn plant derived from a corn seedling infected with vir.sup.+ A. tumefaciens containing a vector comprising genetically-engineered T-DNA, and a corn plant whose cells contain a segment of T-DNA. Finally, there are provided transformed corn derived from a corn seedling infected with vir.sup.+ **Agrobacterium** tumefaciens, and transformed corn derived from a corn seedling infected with vir.sup.+ A. tumefaciens containing a vector comprising genetically-engineered T-DNA.

L2 ANSWER 8 OF 8 USPATFULL

ACCESSION NUMBER: 92:100926 USPATFULL  
TITLE: **Agrobacterium** mediated transformation of germinating plant seeds  
INVENTOR(S): Chee, Paula P., Kalamazoo, MI, United States  
Goldman, Stephen L., Toledo, OH, United States  
Graves, Anne C. F., Bowling Green, OH, United States  
Slightom, Jerry L., Kalamazoo, MI, United States(4)  
PATENT ASSIGNEE(S): The University of Toledo, Toledo, OH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5169770		19921208
APPLICATION INFO.:	US 1990-499515		19900621 (7)
	WO 1988-US4464		19881216
			19900621 PCT 371 date
			19900621 PCT 102(e) date
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fox, David T.		
LEGAL REPRESENTATIVE:	Marshall & Melhorn		

NUMBER OF CLAIMS: 5

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 5 Drawing Figure(s); 3 Drawing Page(s)

LINE COUNT: 656

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A non-tissue culture process using **Agrobacterium**-mediated  
vectors to produce transgenic plants from seeds of such plants as the  
common bean and soybean.

L3 ANSWER 17 OF 211 USPATFULL

ACCESSION NUMBER: 97:1344 USPATFULL  
TITLE: Method for transforming monocotyledons  
INVENTOR(S): Hiei, Yokoh, Iwata-gun, Japan  
Komari, Toshihiko, Iwata-gun, Japan  
PATENT ASSIGNEE(S): Japan Tobacco, Inc., Tokyo, Japan (non-U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5591616		19970107
	WO 9400977		19940120
APPLICATION INFO.:	US 1994-193058		19940503 (8)
	WO 1993-JP925		19930706
			19940503 PCT 371 date
			19940503 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1992-204464	19920707
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Benzion, Gary	
LEGAL REPRESENTATIVE:	Birch, Stewart, Kolasch & Birch, LLP	
NUMBER OF CLAIMS:	25	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	1252	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for transforming a monocotyledon by which the time required from transformation to regeneration of a plant is shorter so that the frequency of emergence of mutants is smaller than the conventional methods, which may be generally applied even to the plants for which the regeneration method from a protoplast to a plant has not been established, and with which the preparation of the material to be subjected to the method is easy. That is, the present invention provides a method for transforming a monocotyledon comprising transforming a cultured tissue during dedifferentiation process or a dedifferentiated cultured tissue of said monocotyledon with a bacterium belonging to genus *Agrobacterium* containing a desired gene.

L3 ANSWER 45 OF 211 AGRICOLA

DUPLICATE 4

ACCESSION NUMBER: 96:54530 AGRICOLA

DOCUMENT NUMBER: IND20532766

TITLE: High efficiency transformation of maize (Zea mays L.) mediated by *Agrobacterium tumefaciens*.

AUTHOR(S): Ishida, Y.; Saito, H.; Ohta, S.; Hiei, Y.; Komari, T.; Kumashiro, T.

CORPORATE SOURCE: Japan Tobacco Inc., Shizuoka, Japan.

AVAILABILITY: DNAL (QH442.B5)

SOURCE: Nature biotechnology, June 1996. Vol. 14, No. 6. p. 745-750  
Publisher: New York, NY : Nature Pub. Co., [1996-  
CODEN: NABIF9; ISSN: 1087-0156

NOTE: Includes references

PUB. COUNTRY: New York (State); United States

DOCUMENT TYPE: Article

FILE SEGMENT: U.S. Imprints not USDA, Experiment or Extension

LANGUAGE: English



L5 ANSWER 24 OF 45 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1996:320179 CAPLUS  
TITLE: Milestones in crop biotechnology - transgenic cassava  
and **Agrobacterium**-mediated transformation of  
**maize**  
AUTHOR(S): Vasil, Indra K.  
CORPORATE SOURCE: Laboratory Plant Cell and Molecular Biology,  
University Florida, Gainesville, FL, 32611-0690, USA  
SOURCE: Nat. Biotechnol. (1996), 14(6), 702-703  
CODEN: NABIF9; ISSN: 1087-0156  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB Unavailable

L5 ANSWER 13 OF 45 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:189009 CAPLUS

DOCUMENT NUMBER: 135:41421

TITLE: A brief review on genetic transformation of  
**maize** (*Zea mays* L. ) mediated by  
**Agrobacterium tumefaciens**

AUTHOR(S): Li, Xin-zheng; Zheng, Cheng-chao; Wen, Fu-jiang

CORPORATE SOURCE: College of Life Science, Shandong Agricultural  
University, Shandon Taian, 271018, Peop. Rep. China

SOURCE: Shengwu Gongcheng Jinzhan (2000), 20(6), 19-21

CODEN: SGJHA2; ISSN: 1003-3505

PUBLISHER: Zhongguo Kexueyuan Wenxian Qingbao Zhongxin

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Chinese

AB A review with 19 refs. This review describes the development of maize genetic transformation techniques via *Agrobacterium tumefaciens*. The cause of low efficiency in the transformation of maize with *Agrobacterium tumefaciens* and the key factors (i.e., bacterial strain, vector, labeled gene, phenotype and origin and development of the receptor plant, and tissue culture) that affect the efficiency of transformation were also discussed.

L5 ANSWER 26 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
ACCESSION NUMBER: 1995:338179 BIOSIS  
DOCUMENT NUMBER: PREV199598352479  
TITLE: **Agrobacterium**-mediated transformation of  
**maize**.  
AUTHOR(S): Ishida, Yuji; Saito, Hideaki; Ohta, Shozo; Hiei, Yukoh;  
Komari, Toshihiko  
CORPORATE SOURCE: Plant Breed Genet. Res. Lab., Japan Tobacco Inc., 700  
Higashibara, Iwata, Shizuoka 438 Japan  
SOURCE: Plant Physiology (Rockville), (1995) Vol. 108, No. 2  
SUPPL., pp. 152.  
Meeting Info.: Annual Meeting of the American Society of  
Plant Physiologists Charlotte, North Carolina, USA July  
29-August 2, 1995  
ISSN: 0032-0889.  
DOCUMENT TYPE: Conference  
LANGUAGE: English